

Figure 1.

(a) Nucleotide sequences for Ala-Ile-Lys-Leu-Val-Gln-Ser-Pro and showing codon frequencies in relation to usage in enteric bacterial genes

Ala	Ile	Lys	Leu	Val	Gln	Ser
GCU 0.35	AUC 0.83	AAA 0.74	CUG 0.83	GUU 0.51	CAG 0.86	UCC 0.37
GCA 0.28	AUU 0.17	AAG 0.26	CUC 0.07	GUA 0.26	CAA 0.14	UCU 0.34
GCG 0.26	AUA 0.00		CUU 0.04	GUG 0.16		AGC 0.20
GCC 0.10			UUG 0.03	GUC 0.07		UCG 0.04
			UUA 0.02			AGU 0.03
			CUA 0.00			UCA 0.02
178	260	269	135	125	230	158

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Pro

CCG 0.77
CCA 0.15
CCU 0.08
CCC 0.00

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(b) Nucleotide sequences for Ala-Ile-Lys-Ileu-Val-Gln-Ser-Pro-Asn-Gly-Asn-Phe-Ala-Ala-Ser and showing codon frequencies in relation to usage in enteric bacterial genes

Ala	Ile	Lys	Leu	Val	Gln	Ser
GCU 0.35	AUC 0.83	AAA 0.74	CUG 0.83	GUU 0.51	CAG 0.86	UCC 0.37
GCA 0.28	AUU 0.17	AAG 0.26	CUC 0.07	GUA 0.26	CAA 0.14	UCU 0.34
GCG 0.26	AUA 0.00		CUU 0.04	GUG 0.16		AGC 0.20
GCC 0.10			UUG 0.03	GUC 0.07		UCG 0.04
			UUA 0.02			AGU 0.03
			CUA 0.00			UCA 0.02
178	260	269	135	125	230	158

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Pro	Asn	Gly	Asn	Phe	Ala	Ala
CCG 0.77	AAC 0.94	GGU 0.59	AAC 0.94	UUC 0.76	GCU 0.35	GCU 0.35
CCA 0.15	AAU 0.06	GGC 0.38	AAU 0.06	UUU 0.24	GCA 0.28	GCA 0.28
CCU 0.08		GGG 0.02			GCG 0.26	GCG 0.26
CCC 0.00		GGA 0.00			GCC 0.10	GCC 0.10
401	396	148	88	34	34	50

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Ser

UCC 0.37
UCU 0.34
AGC 0.20
UCG 0.04
AGU 0.03
UCA 0.02
119

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(c) Nucleotide sequences for Ala-Ile-Lys-Leu-Val-Gln-Ser-Pro-Asn-Gly-Asn-Phe-Ala-Ser-Phe-Val-Leu-Asp-Gly-Thr-Lys-Trp-Ile-Phe-Lys-Ser-Lys-Tyr-Tyr and showing codon frequencies in relation to usage in enteric bacterial genes.

Ala	Ile	Lys	Leu	Val	Gln	Ser
GCU 0.35	AUC 0.83	AAA 0.74	CUG 0.83	GUU 0.51	CAG 0.86	UCC 0.37
GCA 0.28	AUU 0.17	AAG 0.26	CUC 0.07	GUA 0.26	CAA 0.14	UCU 0.34
GCG 0.26	AUA 0.00		CUU 0.04	GUG 0.16		AGC 0.20
GCC 0.10			UUG 0.03	GUC 0.07		UCG 0.04
			UUA 0.02			AGU 0.03
			CUA 0.00			UCA 0.02
178	260	269	135	125	230	158
Pro	Asn	Gly	Asn	Phe	Ala	Ala
CCG 0.77	AAC 0.94	GGU 0.59	AAC 0.94	UUC 0.76	GCU 0.35	GCU 0.35
CCA 0.15	AAU 0.06	GGC 0.38	AAU 0.06	UUU 0.24	GCA 0.28	GCA 0.28
CCU 0.08		GGG 0.02			GCG 0.26	GCG 0.26
CCC 0.00		GGA 0.00			GCC 0.10	GCC 0.10
401	396	148	88	34	34	50
Ser	Phe	Val	Leu	Asp	Gly	Thr
UCC 0.37	UUC 0.76	GUU 0.51	CUG 0.83	GAC 0.67	GGU 0.59	ACC 0.55
UCU 0.34	UUU 0.24	GUA 0.26	CUC 0.07	GAU 0.33	GGC 0.38	ACU 0.35
AGC 0.20		GUG 0.16	CUU 0.04		GGG 0.02	ACG 0.07
UCG 0.04		GUC 0.07	UUG 0.03		GGA 0.00	ACA 0.04
AGU 0.03			UUA 0.02			
UCA 0.02			CUA 0.00			
119	216	167	180	161	240	338

22 - 28	Trp	Ile	Phe	Lys	Ser	Lys
Lys						
AAA 0.74	UGG 1.00	AUC 0.83	UUC 0.76	AAA 0.74	UCC 0.37	AAA 0.74
AAG 0.26		AUU 0.17	UUU 0.24	AAG 0.26	UCU 0.34	AAG 0.26
		AUA 0.00			AGC 0.20	
					UCG 0.04	
					AGU 0.03	
					UCA 0.02	
					154	0
467	467	173	154	152		
29 - 30	Tyr					
Tyr						
UAC 0.75	UAC 0.75					
UAU 0.25	UAU 0.25					
0	0					